

PARALLEL RANDOM NUMBER DETERMINATIONS FOR A STREAM  
CIPHER UTILIZING A COMMON S-BOX

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Abstract of the Disclosure

Parallel generation of random values of a stream cipher utilizing a common S-box is provided. The generation of the values includes determining if a collision exists between accesses of the common S-box. The determination of the two sequential random values is then modified based on whether a collision exists  
10 between accesses of the common S-box. The stream cipher may be the ARC-4 cipher.